

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO.

1614.1220

APPLICATION NO.

FIRST NAMED INVENTOR

Shigemitsu AOKI, et al.

FILING DATE

March 5, 2002

GROUP ART UNIT

## LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

11002 U.S. PTO  
10/087849  
03/05/02

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
LD	AG	5-8483	02/1993	Japan				X
	AH	5-70164	09/1993	Japan				X
	AI	6-215744	08/1994	Japan			X	
	AJ	7-122168	05/1995	Japan			X	
	AK	8-83627	03/1996	Japan			X	
	AL	8-339752	12/1996	Japan			X	

## OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	AM	
	AN	
	AO	

EXAMINER

DONOVAN

DATE CONSIDERED

07-07-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>LIST OF REFERENCES CITED BY APPLICANT</b>  (Use several sheets if necessary)	ATTORNEY DOCKET NO. <b>1614.1220</b>	APPLICATION NO. <b>10/087,849</b>
	FIRST NAMED INVENTOR <b>Shigemitsu AOKI, et al.</b>	
	FILING DATE <b>March 5, 2002</b>	GROUP ART UNIT <b>2836</b>

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
LD	AA	3,952,271	04/1976	Smirnov et al.			
	AB	5,239,202	08/1993	Hostetler			
	AC	3,218,406	11/1965	Gomperts et al.			
	AD	5,668,533	09/1997	Jackson, Jr. et al.			
	AE	4,091,346	05/1978	Nishimura et al.			
	AF	6,014,008	01/2000	Hartzell et al.			

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
LD	AG	0 304 185	02/1989	European Patent Office			X	
LD	AH	100 48 880	04/2002	Germany				
	AI							
	AJ							
	AK							
	AL							

### OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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	AN	

EXAMINER <b>DONOVAN</b>	DATE CONSIDERED <b>07-07-04</b>
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LIST OF REFERENCES CITED BY APPLICANT  (Use several sheets if necessary)		FIRST NAMED INVENTOR Shigemitsu AOKI, et al.	
		FILING DATE March 5, 2002	GROUP ART UNIT

## U.S. PATENT DOCUMENTS

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	BA						
	BB						
	BC						
	BD						
	BE						
	BF						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
LD	BG	9-7478	01/1997	Japan			X
	BH	9-212757	08/1997	Japan			X
	BI	10-12109	01/1998	Japan			X
	BJ	11-8942	01/1999	Japan			X
	BK	11-232975	08/1999	Japan			X
	BL	2000-235828	08/2000	Japan			X
	BM	2000-40452	02/2000	Japan			X

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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FORM PTO-1412 <b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>	ATTORNEY DOCKET NO. <b>1614.1220</b>	APPLICATION NO. <b>10/087,849</b>
	FIRST NAMED INVENTOR <b>Shigemitsu AOKI, et al.</b>	
	FILING DATE <b>March 5, 2002</b>	GROUP ART UNIT <b>2836</b>

**LIST OF REFERENCES CITED BY APPLICANT**

*(Use several sheets if necessary)*

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
<i>LD</i>	AA	3,575,678	04/1971	Barton			
	AB	4,284,904	08/1981	Tetro			
	AC	5,633,626	05/1997	Cawthorne			
	AD	6,025,768	02/2000	Martich			
	AE	6,348,861	02/2002	Li			
	AF						

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	AH							
	AI							
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	AK							
	AL							

**OTHER REFERENCES** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

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<b>EXPLANATIONS OF RELEVANCY OF REFERENCES</b>	ATTORNEY DOCKET NO. 1614.1220	APPLICATION NO.
	FIRST NAMED INVENTOR Shigemitsu AOKI, et al.	
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Each of the references relates to background technology, and do not disclose or suggest patentable features of the present invention.

Japanese Reference AG relates to a proximity sensor 1 including a permanent magnet 3 having a through-hole extending in a direction of magnetization and yoke pieces 4A, 4B provided on both pole surfaces of the permanent magnet 3. In order to detect change of magnetic flux in the through-hole due to a magnetic body approaching the proximity switch, a lead switch 5 or an electro-magnetic conversion element is provided in th through-hole 2.

Japanese Reference AH relates to a direct-current vibrator including a cylindrical body 1 having a movable member provided with a permanent magnet 8 magnetized along the longitudinal direction and a weight 7, which cylindrical body 1 is supported at both end surfaces of the permanent magent 8 by an initial position determining spring 3 and a shock-absorbing spring 5 in a floated manner, a driving coil 2 wound around the cylindrical body 2 at the positin of thepermanent magent 8 and a lead switch 10 provided with a non-magnetic yoke 9 surrounded by soft magnetic material. Above-described elements are connected such that a repulsive force is produced by a magnetic field generated by the driving coil and a magnetic field generated by the permanent magnet.